09/227,654 01/08/99

FIG. 1

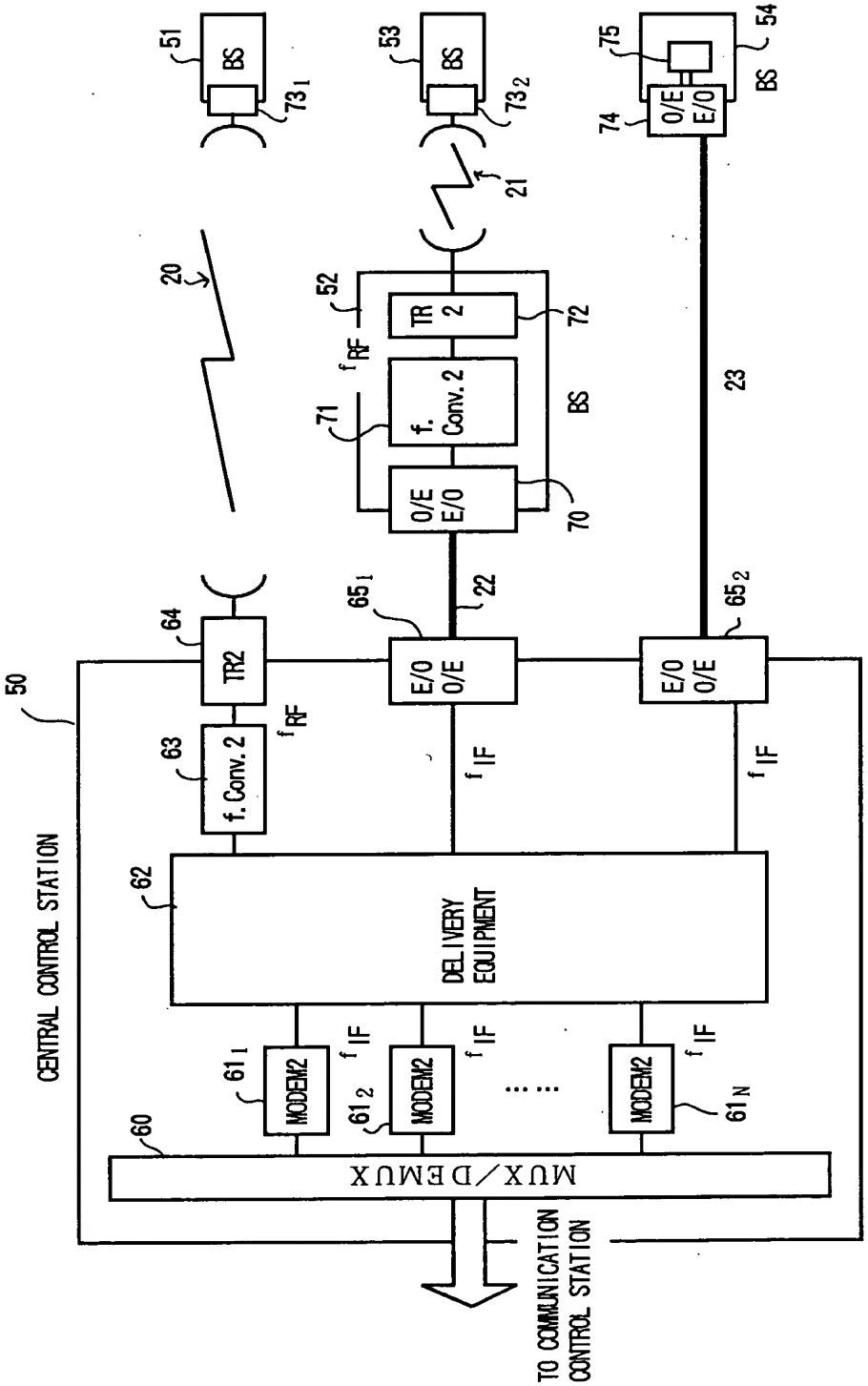

FIG. 2

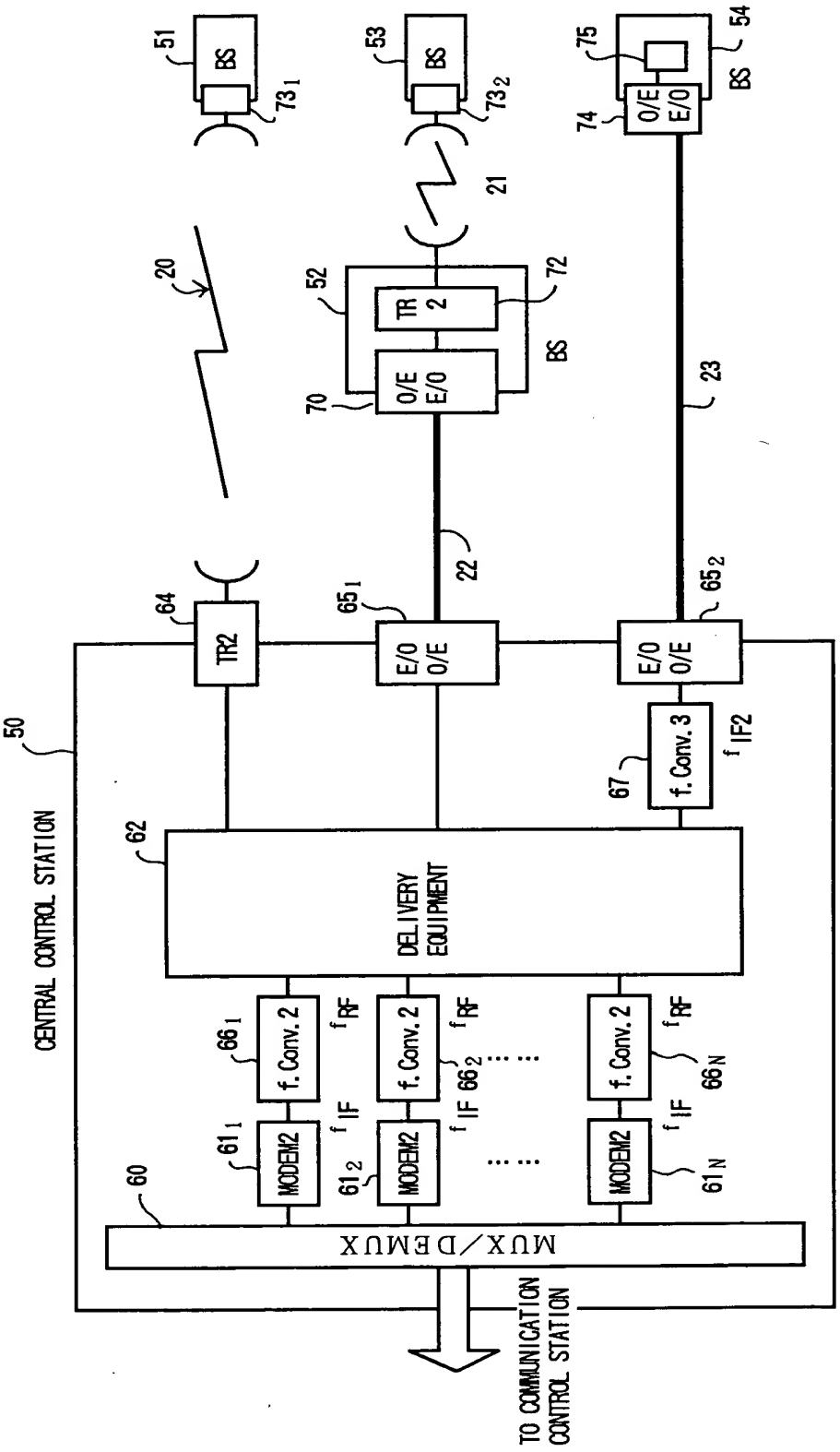
CENTRAL CONTROL STATION
50
TO COMMUNICATION CONTROL STATION
MUX/DEMUX
60
MODEM2
61 1
61 2
61 N
f IF
f. Conv. 2
66 1
66 2
66 N
f RF
DELIVERY EQUIPMENT
62
f. Conv. 3
67
f IF2
TR2
64
E/O O/E
65 1
65 2
22
23
21
20
TR 2
52
72
BS
O/E E/O
70
74
75
54
51
53
73 1
73 2

FIG. 3

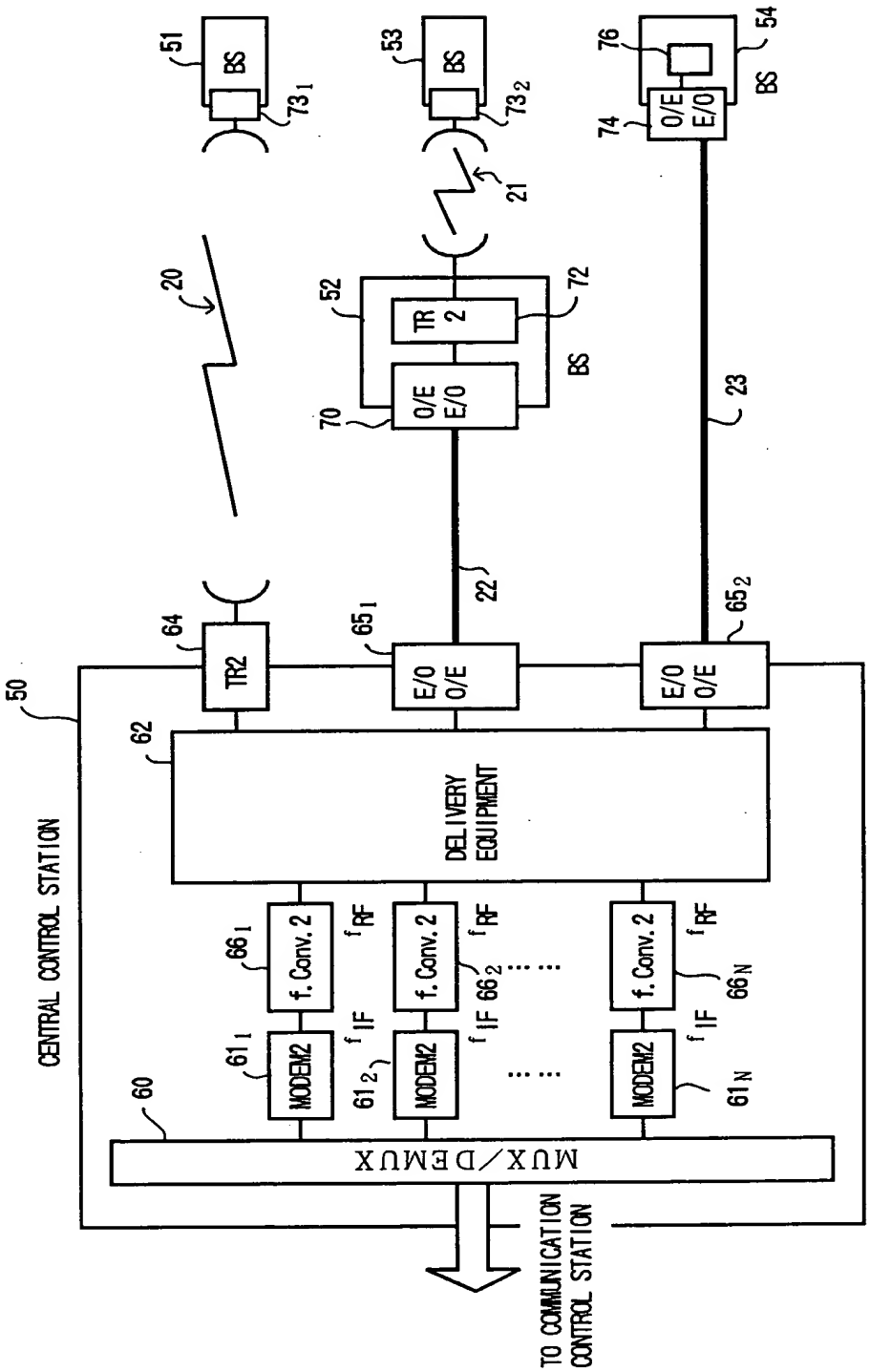
CENTRAL CONTROL STATION
50
TR2
64
E/O O/E
65 1
E/O O/E
65 2
DELIVERY EQUIPMENT
62
f. Conv. 2
66 1
f. Conv. 2
66 2
f. Conv. 2
66 N
f RF
f IF
MODEM2
61 1
61 2
61 N
MUX/DEMUX
60
TO COMMUNICATION CONTROL STATION
BS
51
73 1
53
73 2
76
54
74
O/E E/O
TR 2
52
72
70
20
21
22
23

FIG. 4A

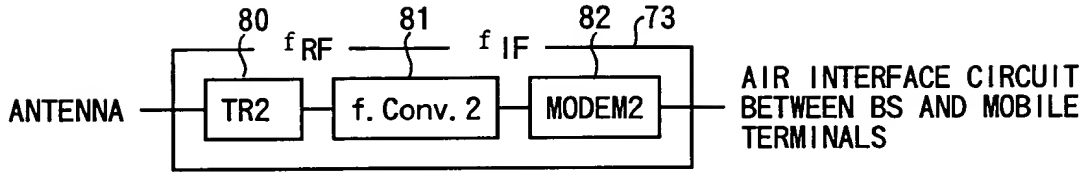


FIG. 4B

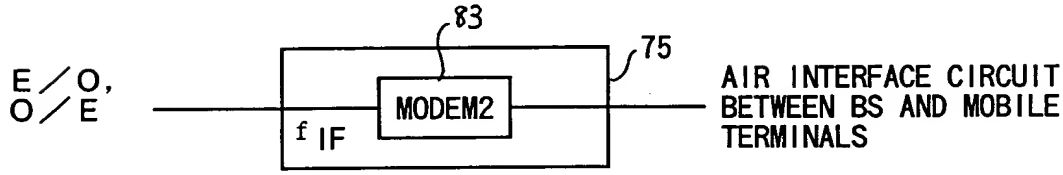


FIG. 4C

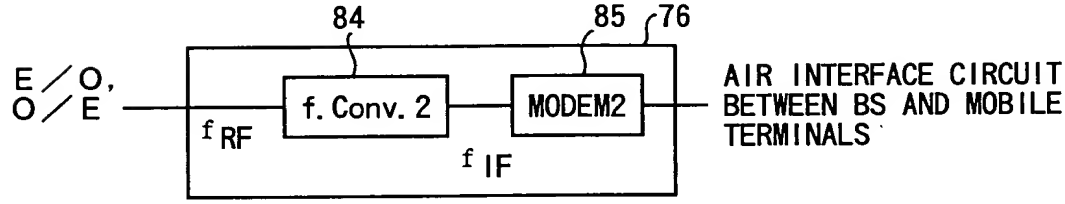


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FIG. 5

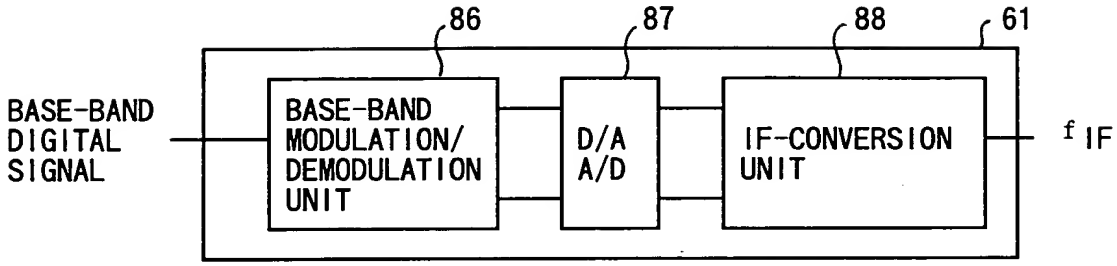


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FIG. 6

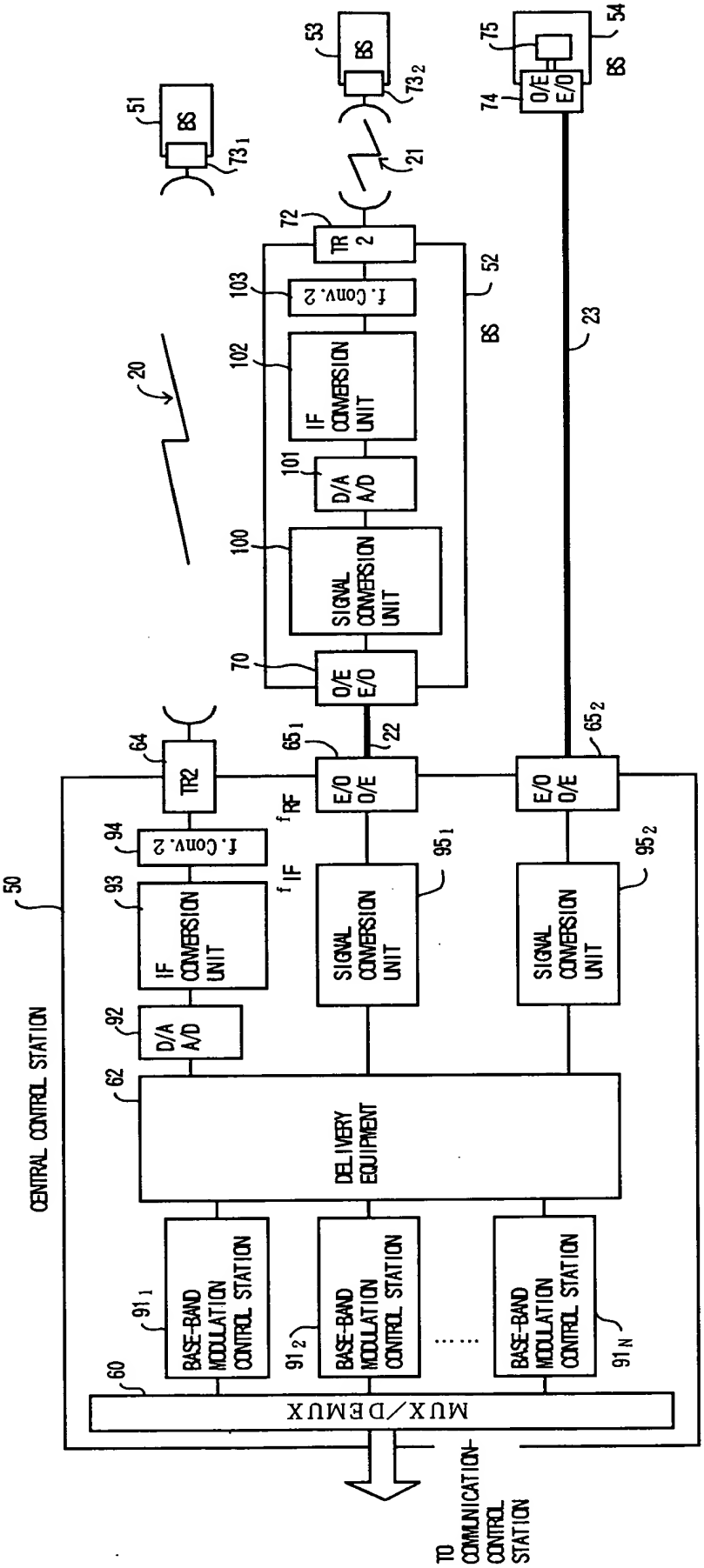
CENTRAL CONTROL STATION
50
TO COMMUNICATION CONTROL STATION
MUX/DEMUX
60
BASE-BAND MODULATION CONTROL STATION
91 1
91 2
91 N
DELIVERY EQUIPMENT
62
D/A A/D
92
IF CONVERSION UNIT
93
f. Conv. 2
94
TR2
64
E/O O/E
65 1
65 2
SIGNAL CONVERSION UNIT
95 1
95 2
f RF
f IF
22
23
O/E E/O
70
74
75
54
SIGNAL CONVERSION UNIT
100
D/A A/D
101
IF CONVERSION UNIT
102
f. Conv. 2
103
TR 2
72
BS
52
20
21
BS
51
73 1
BS
53
73 2

FIG. 7

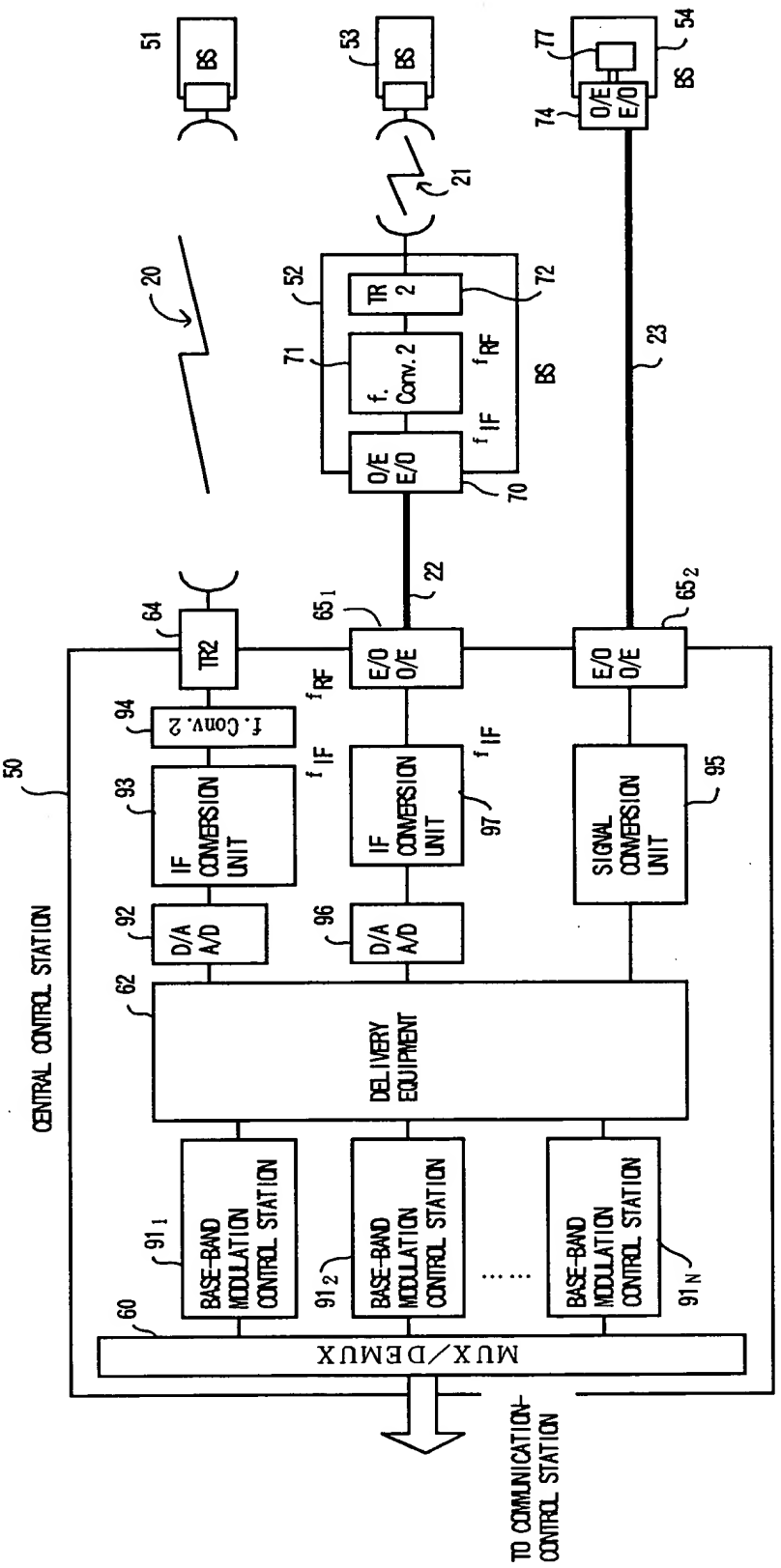
CENTRAL CONTROL STATION
50
BASE-BAND MODULATION CONTROL STATION
91 1
91 2
91 N
MUX/DEMUX
60
DELIVERY EQUIPMENT
62
D/A A/D
92
96
IF CONVERSION UNIT
93
97
SIGNAL CONVERSION UNIT
95
f. Conv. 2
94
TR2
64
E/O O/E
65 1
65 2
22
23
TR 2
52
72
f. Conv. 2
71
O/E E/O
70
f RF
f IF
BS
20
21
51
53
77
74
54
TO COMMUNICATION-CONTROL STATION

FIG. 8

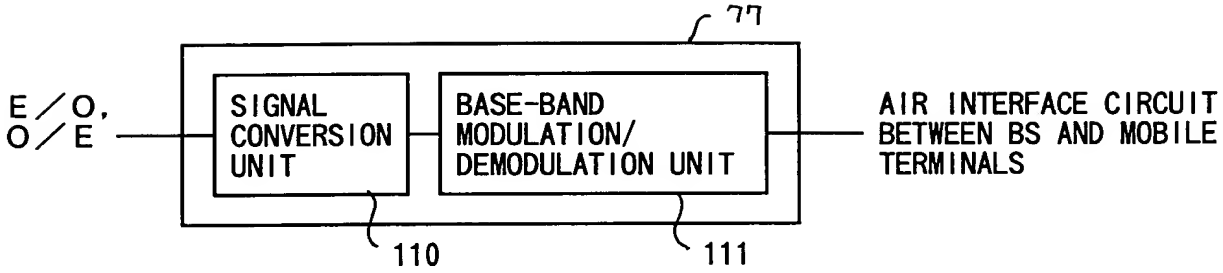


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FIG. 9

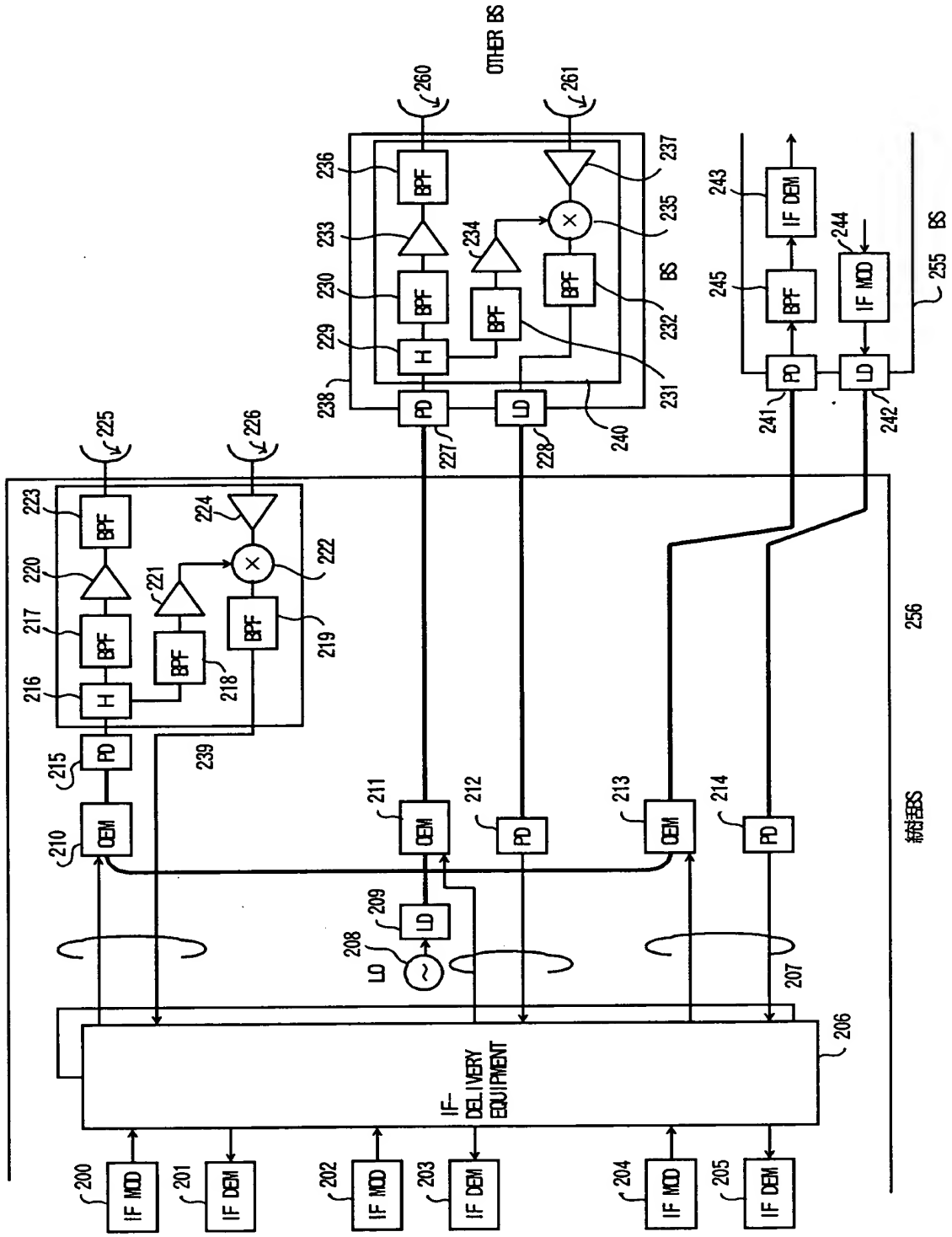

OTHER BS
IF-DELIVERY EQUIPMENT
IF MOD
IF DEM
BPF
H
PD
LD
OEM
BS
無線BS

FIG. 10

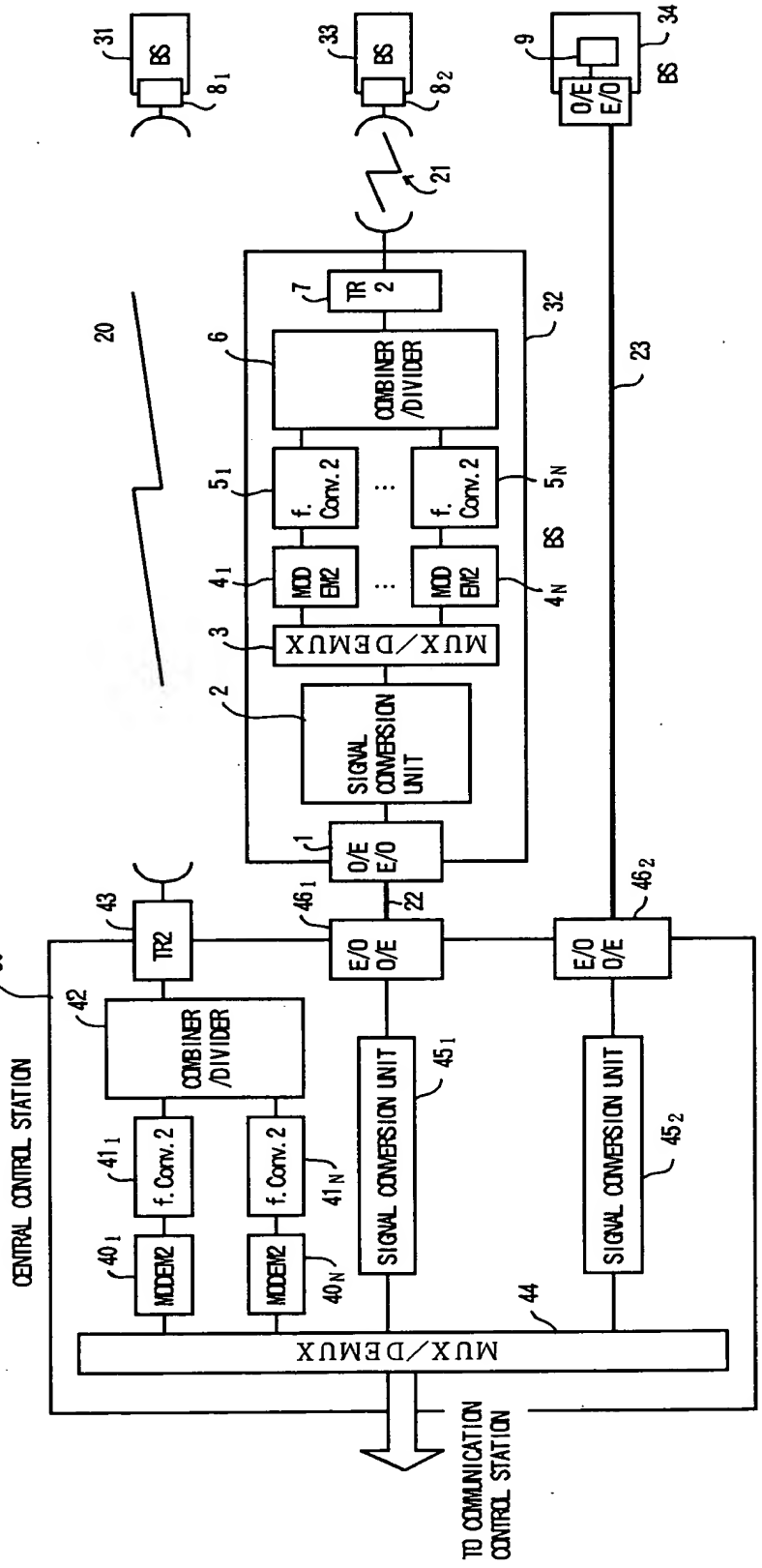
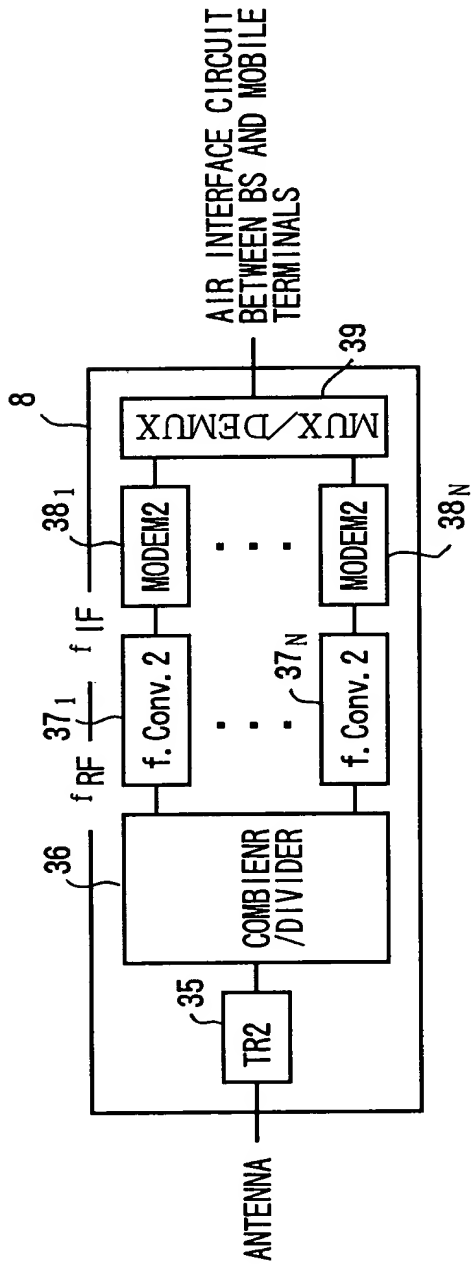

BS
O/E E/O
COMBINER /DIVIDER
TR
f. Conv.
MOD EM2
MUX/DEMUX
SIGNAL CONVERSION UNIT
E/O O/E
MODEM2
CENTRAL CONTROL STATION
TO COMMUNICATION CONTROL STATION

FIG. 11A



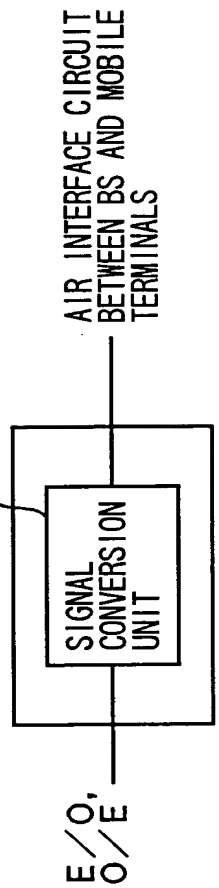


FIG. 11B